

FEB 25 2000

K000319  
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## 510(k) Summary of Safety & Effectiveness

This 510(k) Summary of Safety and Effectiveness for the EBI XFIX DFS<sup>®</sup> System is provided as required per Section 513(I)(3) of the Federal Food, Drug and Cosmetic Act.

1. **Sponsor:** EBI, L.P.  
100 Interpace Parkway  
Parsippany, NJ 07054
- Contact Person:** Jonas Wilf  
Telephone: (973) 299-9022

Date prepared: February 1, 2000

2. **Proprietary Name:** EBI XFIX DFS<sup>®</sup> System
- Common Name:** External Fixation Device
- Classification Names:** Single Multiple Component Metallic  
Bone Fixation Appliances and  
Accessories, 21 CFR 888.3030.

3. **Predicate or legally marketed devices that are substantially equivalent:**

- EBI XFIX DFS Joint Fixator – Electro-Biology, Inc.
- Hoffmann II External Fixation System – Howmedica Corporation

4. **Description of the device:** The EBI XFIX DFS System has not changed the Indications for Use or fundamental scientific technology of the previous cleared system. The system consists of external fixation components and implantable bone screws. The EBI XFIX DFS System is utilized in the following manner: bone screws are inserted through the patient skin and soft tissue and into the bone. The fixator frame of the EBI XFIX DFS System is attached to the shanks of the bone screws. This submission is for the additional use of a carbon fiber rod and smaller unilateral external fixator.

5. **Intended Use:** The EBI XFIX DFS<sup>®</sup> System is a unilateral external fixation device intended for use in the treatment of bone conditions including leg lengthening, osteotomies, arthrodesis, fracture fixation, and other bone conditions amenable to treatment by use of the external fixation modality.

6. **Materials:** The components of the system may be manufactured from materials such as Aluminum, Stainless Steel, Pyromet<sup>®</sup> 718, Carbon Fiber, and Ti-6Al-4V ELI.

7. **Comparison of the technological characteristics of the device to predicate devices:**

- The EBI XFIX DFS<sup>®</sup> System is substantially equivalent to the following predicate EBI and competitive devices. The components of the EBI XFIX DFS System are

fabricated from the same types of materials as the components of the currently marketed EBI XFIX DFS System and Howmedica External Fixation System.

- The bone screw clamps of the EBI XFIX DFS System, like the bone screw clamps currently marketed EBI XFIX DFS System, are designed for attachment to the bone screws.

The EBI XFIX DFS System like the currently marketed EBI XFIX DFS System is provided non-sterile. There are no significant differences between the EBI XFIX DFS System and other currently marketed external fixation systems. It is substantially equivalent\* to the predicate devices in regards to intended use, materials and function.

\*Any statement made in conjunction with this submission regarding a determination of substantial equivalence to any other product is intended only to relate to whether the product can be lawfully marketed without pre-market approval or reclassification and is not intended to be interpreted as an admission or any other type of evidence in patent infringement litigation. [Establishment Registration and Premarket Notification Procedures, Final Regulation, Preamble, August 23, 1977, FR 42520 (Docket No. 76N-0355.)]



DEPARTMENT OF HEALTH & HUMAN SERVICES

Public Health Service

FEB 25 2000

Food and Drug Administration  
9200 Corporate Boulevard  
Rockville MD 20850

Mr. Jonas Wilf  
EBI, L. P.  
100 Interpace Parkway  
Parsippany, New Jersey 07054

Re: K000319  
Trade Name: EBI XFIX DFS® System  
Regulatory Class: II  
Product Code: KTT  
Dated: February 1, 2000  
Received: February 2, 2000

Dear Mr. Wilf:

We have reviewed your Section 510(k) notification of intent to market the device referenced above and we have determined the device is substantially equivalent (for the indications for use stated in the enclosure) to devices marketed in interstate commerce prior to May 28, 1976, the enactment date of the Medical Device Amendments, or to devices that have been reclassified in accordance with the provisions of the Federal Food, Drug, and Cosmetic Act (Act). You may, therefore, market the device, subject to the general control provisions of the Act. The general control provisions of the Act include requirements for annual registration, listing of devices, good manufacturing practice, labeling, and prohibitions against misbranding and adulteration.

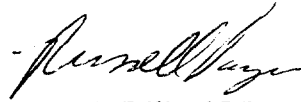
If your device is classified (see above) into either class II (Special Controls) or class III (Premarket Approval), it may be subject to such additional controls. Existing major regulations affecting your device can be found in the Code of Federal Regulations, Title 21, Parts 800 to 895. A substantially equivalent determination assumes compliance with the current Good Manufacturing Practice requirement, as set forth in the Quality System Regulation (QS) for Medical Devices: General regulation (21 CFR Part 820) and that, through periodic (QS) inspections, the Food and Drug Administration (FDA) will verify such assumptions. Failure to comply with the GMP regulation may result in regulatory action. In addition, FDA may publish further announcements concerning your device in the Federal Register. Please note: this response to your premarket notification submission does not affect any obligation you might have under sections 531 through 542 of the Act for devices under the Electronic Product Radiation Control provisions, or other Federal laws or regulations.

This letter will allow you to begin marketing your device as described in your 510(k) premarket notification. The FDA finding of substantial equivalence of your device to a legally marketed predicate device results in a classification for your device and thus, permits your device to proceed to the market.

Page 2 - Mr. Jonas Wilf

If you desire specific advice for your device on our labeling regulation (21 CFR Part 801 and additionally 809.10 for in vitro diagnostic devices), please contact the Office of Compliance at (301) 594-4659. Additionally, for questions on the promotion and advertising of your device, please contact the Office of Compliance at (301) 594-4639. Also, please note the regulation entitled, "Misbranding by reference to premarket notification" (21 CFR 807.97). Other general information on your responsibilities under the Act may be obtained from the Division of Small Manufacturers Assistance at its toll-free number (800) 638-2041 or at (301) 443-6597, or at its Internet address "<http://www.fda.gov/cdrh/dsmamain.html>".

Sincerely yours,

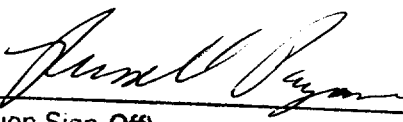


*for* James E. Dillard III  
Acting Director  
Division of General and  
Restorative Devices  
Office of Device Evaluation  
Center for Devices and  
Radiological Health

Enclosure

## Statement of Indications for Use:

The **EBI XFIX DFS<sup>®</sup>** System is a unilateral external fixation device intended for use in the treatment of bone conditions including leg lengthening, osteotomies, arthrodesis, fracture fixation, and other bone conditions amenable to treatment by use of the external fixation modality.

  
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(Division Sign-Off)  
Division of Unilateral Restorative Devices  
514K) Number 15000319

Prescription Use X  
(Per 21 CFR 801.109)